

Date 10/13/93			
( ) Conrad Simon ( ) Carol Control ( ) Helen Beggun ( ) Larry Donormon ( ) Michael ( ) Eddie Hernandez ( ) Maria John Maria John Michael Poetzsch ( ) John New ( ) Barry Tornick ( ) Wilfredd ( ) Doug Pocze ( ) Alan St.	'Andre Infur on sters vius o Palo tein	na	
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( ) Action Comments/Response due by			<del></del>
( ) Circulate ( ) Return to ( ) CS's Signature ( ) See me to discuss by	*	Lefter.	
James Reidy, P.E. Chief New York Corrective Action Section	_		

### New York State Department of Environmental Conservation EHIVIRONMENTAL PROTE 50 Wolf Road, Albany, New York 12233

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AWM-HAZ WASTE FAC. BRANCH



OCT 5 1993

Mr. James Reidy, P.E. Chief New York Corrective Action Section USEPA Region II Jacob Javits Federal Plaza New York, NY 10278

Dear Mr. Reidy:

RE: Grumman Aerospace Corp./Naval Weapons Industrial Reserve Plant - Bethpage EPA I.D. No. NYD002047969

Attached please find the Site Stabilization Report for the Interim Corrective Measures to prevent human above facility. exposure to contaminated soil and groundwater have already been performed by both the Navy and the Bethpage Water District, and any additional appropriate stabilization measures would require the same feasibility and comparative selection analysis being explored in the CMS. Therefore, the Department recommends that no further stabilization be required for this facility.

If you have any questions, contact Ms. Kelly Bologna at (518) 457-6072.

Sincerely,

John L. Middelkoop,

Chief

Bureau of Eastern Hazardous Waste

Programs

Division of Hazardous Substances

Regulation

Attachments

cc: D. Lucia

K. Bologna

## CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Complete Date:	KellyBologna September 20,	1993
Sackgrout	nd Facility Information	
Facility Nar	ne: Grumman ication No.: NYD00204	Aerospace Corp./ Naval Indus. Reserve Plant 7969 , New York
several Explain Seve: prope	checklist being completed for one aste management unit (SWMU). SWMUs, or the entire facility?  ral SWMUs on Navy erty and ACCs. e attached.	completed [see Question 2], been successful in preventing the further spread of contamination at the facility?  (X) Yes
Status of Co. Facility	rrective Action Activities at the	() No () Uncertain; all underway In an interim remedial action,
2. What is to corrective	he current status of HSWA action activities at the facility?	samples containing PCBs significantly
	o corrective action activities	of contaminates Also Red and migration
O,	CRA Facility Assessment (RFA) equivalent completed CRA Facility Investigation (RFI)	well #6-1 has granulated active carbon treatment  Also see attached

completed

completed

completed

completed

()

(X)

Corrective Measures

3. If corrective action activities have been

Operating permit

Post-closure permit Enforcement order

Corrective Measures Study (CMS)

Implementation (CMI) begun or

Interim Measures begun or

initiated, are they being carried out under a permit or an enforcement order?

### Facility Releases and Exposure Concerns

To what media have contaminant raleases from the facility occurred or been suspected of occurring?

(X) Groun () Surfac () Air (X) Soils	o whier
--------------------------------------	---------

<ol><li>Are contaminant releases migrating off- site?</li></ol>	Anticipated Final Corrective Measures
(X) Yes; Indicate media, concentrations, and level of cenainty.  The Bethpage Water District (BW potable water supply well(#6-1) contained 240 ppb Trichloroeth Also see attached	ene. (x) Yes
() No () Uncertain	() No () Uncarain
7a. Are humans currently being exposed to contaminants released from the facility?  ( ) Yes	Additional explanatory notes:  A Corrective Measures Study is currently being implemented.
() Yes ② No	Contraction and months report and contracts the section and account of the section and the section of the secti
() Uncertain	10. Could a stabilization inhistive at this facility
7b. Is there a potential for human exposure to the contaminants released from the facility	reduce the present or near-term (e.g., less than two years) risks to human health and the environment?
over the next five to 10 years?	() Yes
() Yes	(x) No () Uncertain
() No (X) Uncertain	Additional explanatory negative
Ba. Are environmental receptors currently being exposed to contaminants released from the facility?	Final corrective measures will be implemented within the near-term.
() Yes () No (X) Uncenain	11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be
Bb. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next five to 10 years?	implemented?  ( ) Yes (X) No ( ) Uncertain
( ) Yes ( ) No (X) Uncertain	Additional explanatory notes: Stabilization for soilscontaining PCBs has already occured. No known residential wells in the immediate vicinity of the NWFRP are present. The one BWD well (#6-1) that exceeded drinking water standards is currently under activated carbon treatment for VOC removal.

Tec Aci	chnics Uvities	al Ability to Implement Stabilization	15. Has the RFI, or another environmental investigation, provided the site
12.	in w	hat phase does the contaminant exist er ambient site conditions?	characterization and waste release data needed to design and implement a stabilization activity?
	(X)	Solid Light non-aqueous phase tiquids (LNAPLs)	(x) Yes () No
	( )	Dense non-aqueous phase Equids (DNAPLs)	# No, can those data be obtained faster than the data needed to implement the
	(x)	Dissolved in ground water or surface water	final corrective measures?
	()	Gaseous Other	() Yes () No
13.	Are o	one or more of the following major nical groupings of concern at the	
. •	facilit	y?	Timing and Other Procedural Issues Associated with Stabilization
:	(x)	Volatile organic compounds (VOCs) and/or semi-volatiles	16. Can stabilization activities be implemented more quickly than the final corrective
	( ) (x)	Polynuclear aromatics (PAHs) Pesticides Polychlorinated biphenyls (PCBs)	measures?
	( )	and/or dioxins Other organics	( ) Yes (X) No
-	(x)	Inorganics and metals Explosives	() Uncertain
	()	Other	Additional explanatory notes: The CMS Implementation currently underway would parallel an interin
14.	Are apavaila	ppropriate stabilization technologies ble to prevent the further spread of	stabilization, Also see attached
	conta	mination, based on contaminant cteristics and the facility's	17. Can stabilization activities be incorporated and the final corrective measures at some
	enviro	onmental setting? [See Attachment as listing of potential stabilization	point in the future?
	techni	ologies.]	() Yes (X) No
	(X) 	Yes; Indicate possible course of action.	() Uncertain
			Additional explanatory notes:
	se ,	e attached	
(	( ) -	No; Indicate why stabilization technologies are not appropriate; then go to Question 19.	
	7		

•	Conclusion
	18. Its this facility an appropriate candidate for stabilization activities?
	( ) Yes ( ) No, not feasible ( ) No, not required
	Explain final decision, using additional sheets if necessary.
is underwa	Because interimeremedial measuresare already in place and Corrective Measures Sture it is not recommended that additional measures, prior to Corrective Measures Implementation, be required using the stabilization strategy.
	Entering this STABILIZATION MEASURES EVALUATION (CA 225) in RCRIS requires one of the following status codes.
•	<ul> <li>() YE: Stabilization required</li> <li>() NR: Stabilization not required</li> <li>() NF: Stabilization not feasible, e.g., technical limitations or site characteristics make stabilization</li> </ul>
-	infeasible ( ) IN: Further investigation necessary

# SUPPLEMENTAL INFORMATION CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE GRUMMAN/NWIRP - BETHPAGE

1.-3. The corrective action required by the facility's RCRA operating permit is currently being carried out by the Navy to parallel the remedial work that Grumman is being required to do on its surrounding property under a Consent Order signed with the Department's Division of Hazardous Waste Remediation.

The Navy is currently implementing a CMS for the following SWMU's and AOC's at the facility:

Site 1: Former Drum Marshalling Area

Site 2: Recharge Basin Area
Site 3: Salvage Storage Area

AOC 1: HN-24 Area AOC 2: Plant No. 3

AOC 3: Northern Warehouse: Drum Marshalling Area

AOC 4: Offsite Residential Neighborhood

As a result of the presence of PCB's in surface soils at a concentration significantly greater than 50 mg/kg, the Navy initiated an interim remedial action to protect human health. A soil cap was placed on these areas to reduce the cancer risk of offsite residents and onsite workers to 1 X 10<sup>-6</sup> and 1 X 10<sup>-5</sup>, respectively.

The Bethpage Water District (BWD) operates a line of water supply wells approximately 7500 feet south of NWIRP (well #s 4, 5 and 6). Of these wells, #6 was measured to contain—a—trichloroethene—(TCE) concentration of 240 mg/l (drinking water criteria is less than 5 ug/l). Because of this, the BWD has implemented an interim remedial measure with the installation—of granulated active carbon (GAC) treatment for VOC removal.

6. Contaminated groundwater has migrated offsite. A monitoring well program made up of three well clusters (including shallow and deep wells) was installed in the residential neighborhood to the east of the NWIRP to evaluate the horizontal and vertical extent of solvent - contaminated groundwater. Congruently, computer modeling was performed to develop a full range of potential contaminant migration routes based on the

natural site hydrogeology, the pumping of facility production wells as well as BWD public supply wells, and the reinjection of groundwater via facility recharge Based on the offsite monitoring well program, as well the computer modeling results, the shallow groundwater contamination in the offsite neighborhood is limited to areas within approximately 100 feet east of Site 1 but continue on south to near the Long Island Railroad (LIR). Intermediate depth groundwater contamination also extends east and south to the LIR.

Because the BWD potable supply wells to the east and south are at such a distance and the fact that historical pumping scenarios greatly vary, it is uncertain which SWMU's from Navy property, if any, are responsible for the contamination at well #6. Las well #6 adjacked to

- There are no known residential groundwater wells in the 7a. immediate vicinity of the NWIRP and the one BWD well (#6) having concentrations of VOC's above drinking water standards has already undergone an interim remedial measure.
- Appropriate stabilization measures for soil would be: 14. fixation and/or excavation of PCB's and in-situ vapor extraction of VOC's. Appropriate stabilization for groundwater would include extraction, granulated activated carbon treatment and air stripping (VOC's), and precipitation filtration (inorganics).
- 15. Any additional stabilization measures that would be appropriate would require the same feasibility and comparative benefit/cost analysis currently beingexplored in the CMS.

None of the existing measures prevent further migration of contam.

[Navy will need to negotiate with other potential polluters (e.g. Hooker-Puro).

In the interim, the Navo might outant to consider some stabilis in easures.

